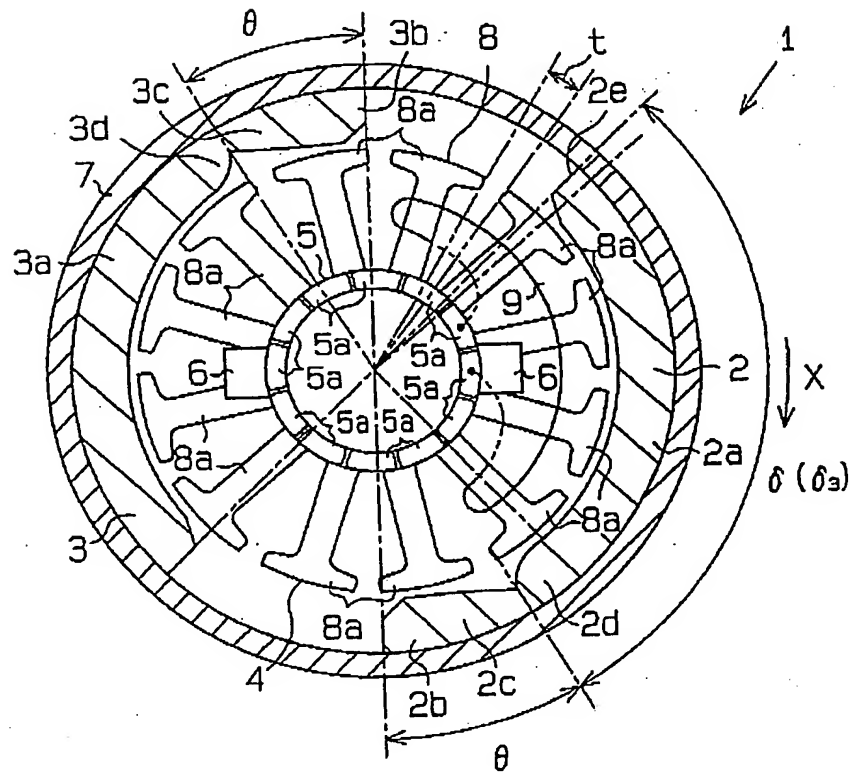


FIG. 1 is a schematic diagram of a circular gear-like structure, possibly a turbine or compressor, showing multiple concentric rings and radial segments. The diagram is divided into five radial sectors labeled 1st, 2nd, 3rd, 4th, and 5th. The central part consists of a circular core with radial segments labeled 5a. Surrounding this is a ring with segments labeled 5. The next ring out has segments labeled 6 and 8a. The outermost ring has segments labeled 2, 2a, 2b, 2c, 2d, 2e, 3, 3a, 3b, 3c, 3d, 3e, 4, and 7. The outermost boundary is labeled 1. The diagram also shows angular dimensions  $\theta$  and radial dimensions  $\delta$  and  $\delta_a$ .

**Fig.2**



**Fig.3**

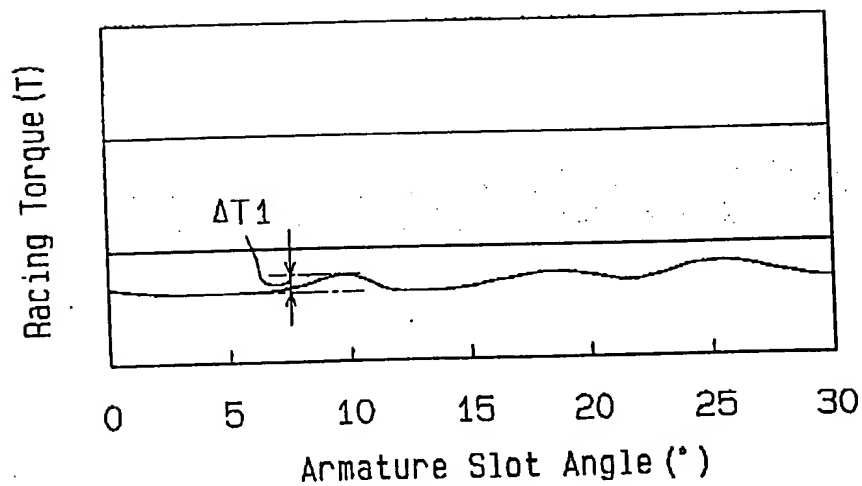
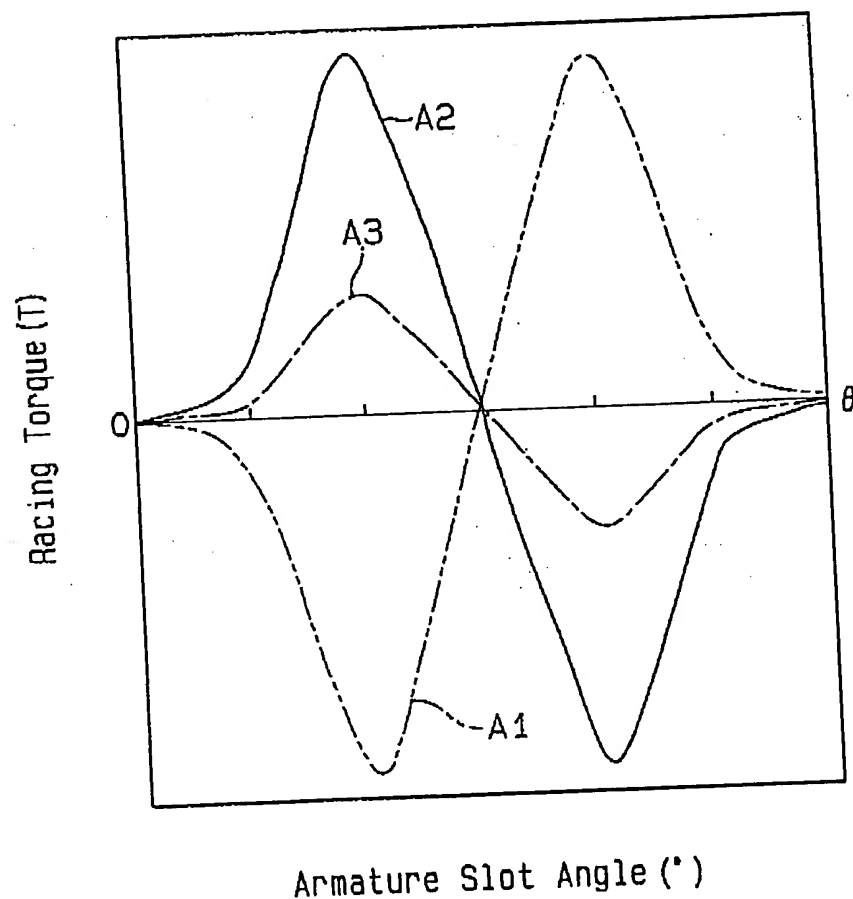


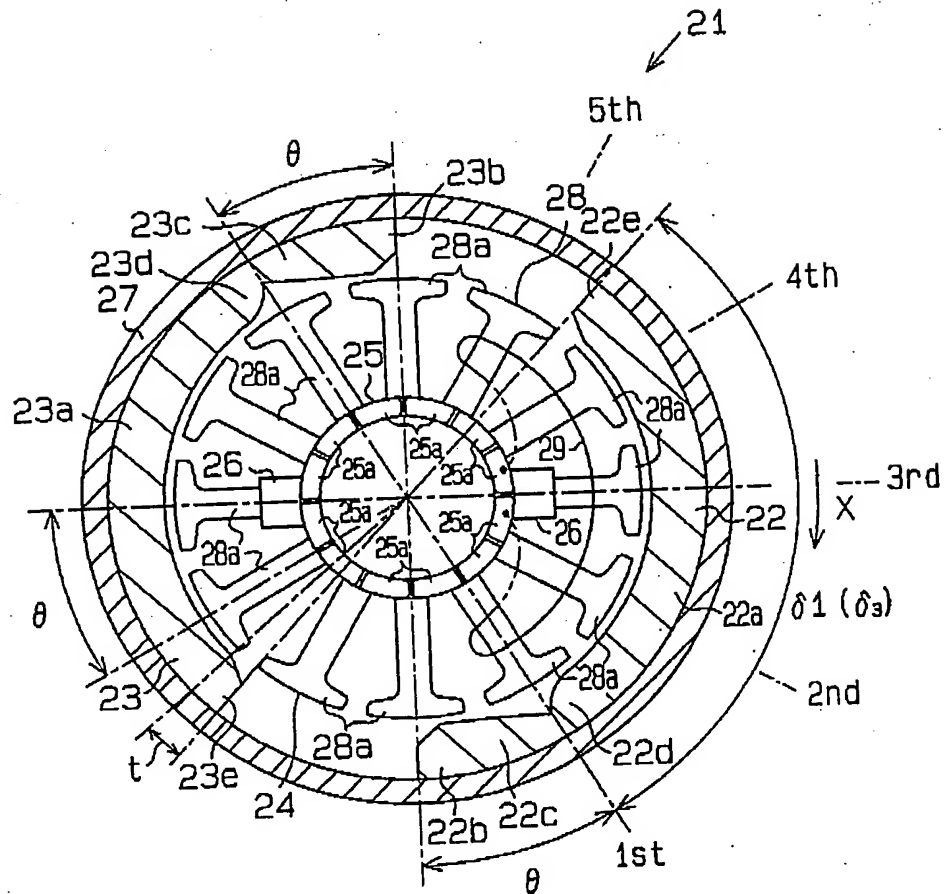


FIG. 1 is a cross-sectional view of a circular device, likely a turbine or compressor, showing five concentric layers. The layers are labeled 1st, 2nd, 3rd, 4th, and 5th from the center outwards. The 1st layer contains a central circular region 15 with radial segments 15a and 15b. The 2nd layer contains a ring of segments 16 and 17. The 3rd layer contains a ring of segments 18a and 18b. The 4th layer contains a ring of segments 12a and 12b. The 5th layer contains a ring of segments 13a and 13b. A central shaft 14 is shown. A coordinate system with X and Y axes is indicated. Various angles and dimensions are labeled, including  $\theta$  and 11.

**Fig. 6**



**Fig.7**



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**Fig. 8**

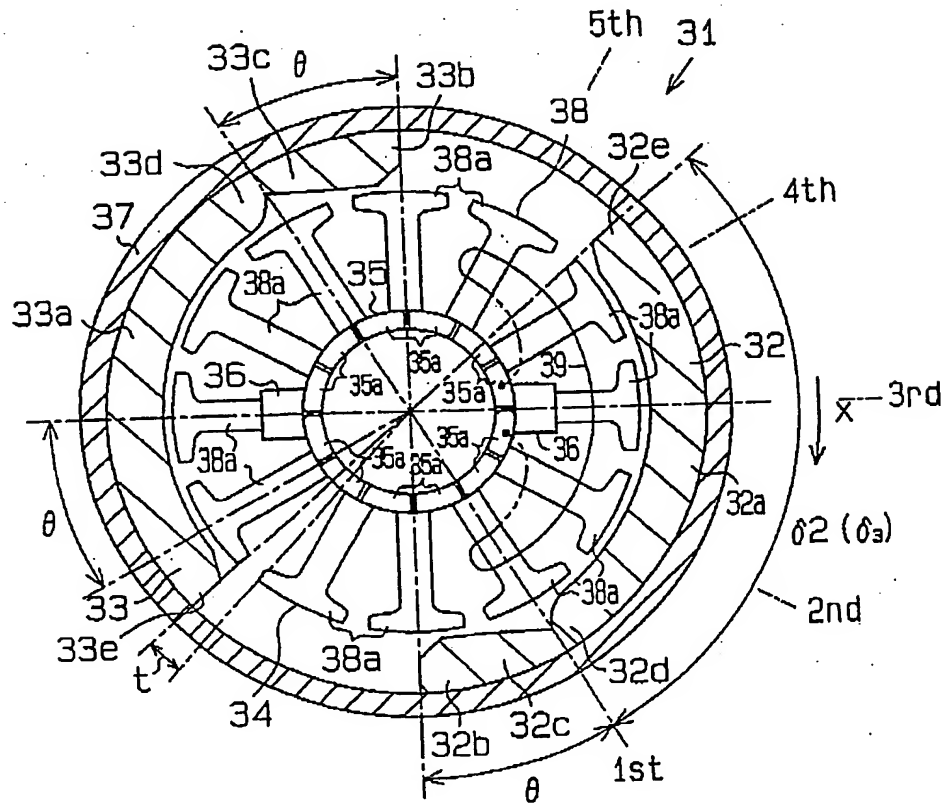
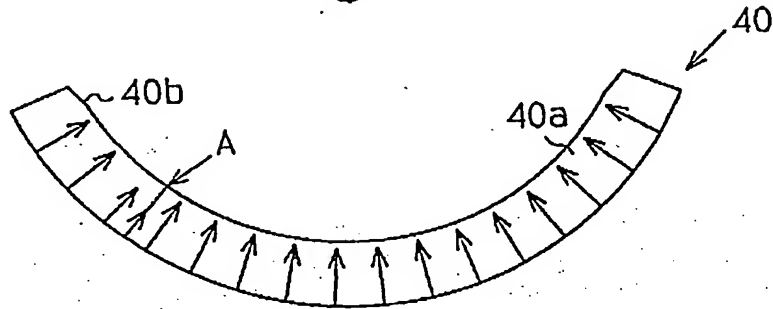
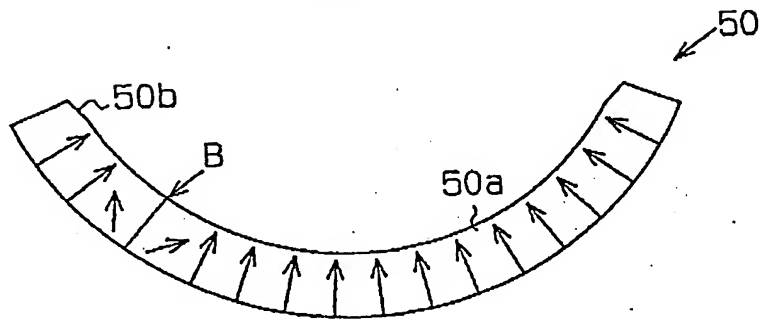


FIG. 8

**Fig.9**



**Fig.10**



**Fig.11**

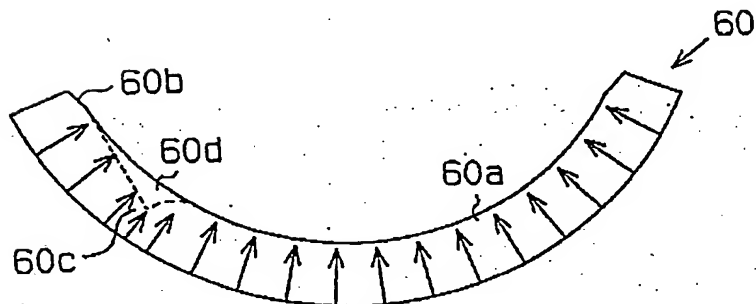
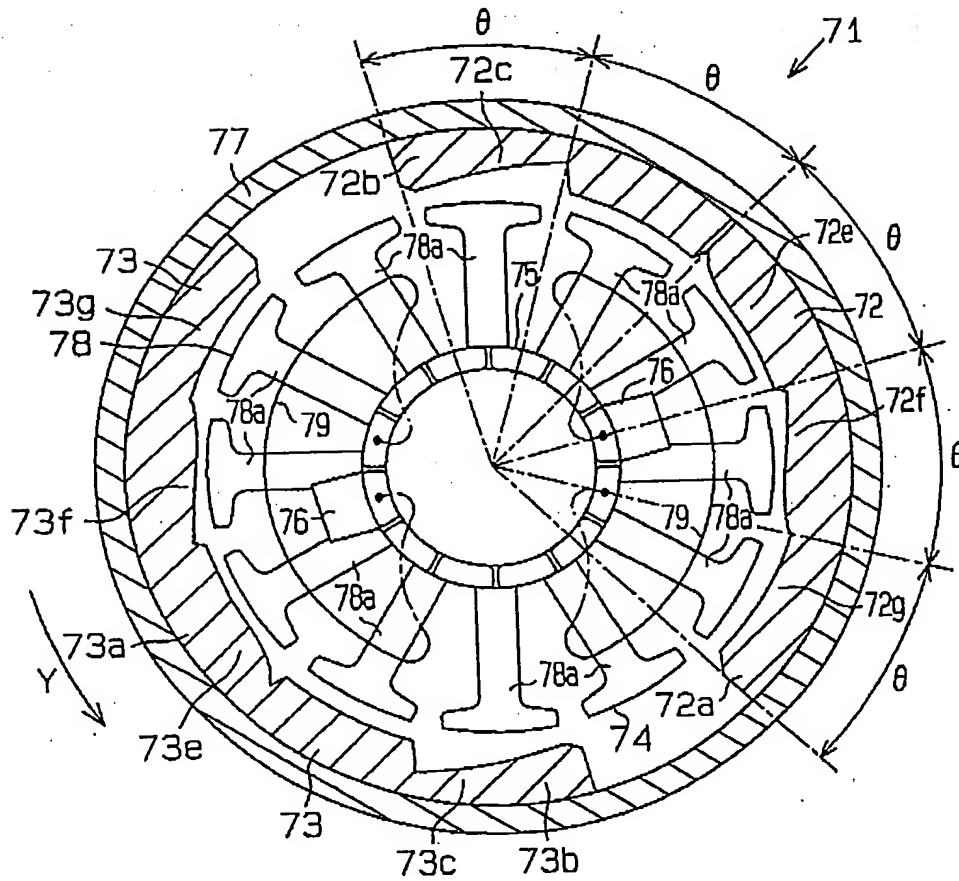
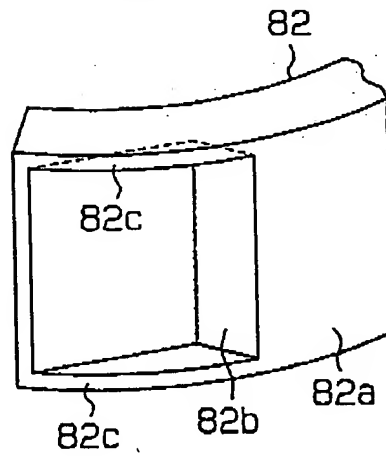


FIG. 9

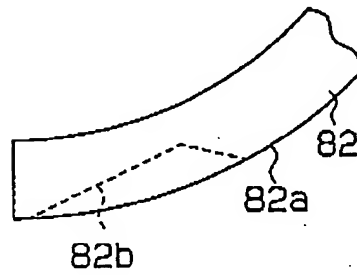




**Fig.13(a)**



**Fig.13(b)**



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